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(54) LUBRICANT FOR HOT ROLLING OF STEEL MATERIAL

(57)Abstract:

PURPOSE: To obtain a lubricant for hot rolling of steel materials, having excellent instantaneous adhesiveness, excellent hot lubricity, and better waste water treatability, by dispersing surface-treated CaCO_3 with a water-soluble high-molecular compound as a dispersant into water.

CONSTITUTION: CaCO_3 is treated with a surface treating agent, e.g., a fatty acid, a resin acid, a surfactant, etc., to obtain a surface-treated CaCO_3 . Then, the surface-treated CaCO_3 is dispersed into water by using a water-soluble high-molecular compound, e.g., polycarboxylic acid type high-molecular compounds, sodium alginate, etc., as dispersants.

EFFECT: The lubricant contains no oils, is stable at high temperature, and is easily separated from water. Also, the treatment of waste water with the lubricant is easy.

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